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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: EXPRESSION OF THE HUMAN IGF-1 IN TRANSGENIC PLASTIDS

A. Native IGF-1

ggaccggagacgctctgcggggctgagctggtggatgctcttcagttcgtgtgtggagacaggggcttttatttcaacaagcccacagg gtatggctccagcagtcggagggcgcctcagacaggcatcgtggatgagtgctgcttccggagctgtgatctaaggaggctggagatg tattgcgcacccctcaagcctgccaagtcagct

B. Synthetic IGF-1

ggtcctgaaactttatgtggtgctgaattagtagatgctttacaattcgtatgtggtgatcgtggtttctatttcaacaaacctactggttacggt tcttcttctcgtcgtgctcctcaaactggtattgtagatgaatgttgtttccgttcttgtgatttacgtcgtttagaaatgtactgtgctcctttaaaacctgctaaatctgct

(57) Abstract: A plastid transformation vector for a stably transforming a plastid genome, comprising, as operably-linked components, a first flanking sequence, a DNA sequence coding for synthetic insulin-like growth factor-1 (IGF-1s) (seek ID NO. 1) or a substantially homologous DNA sequence of IGF-1s, which is capable of expression in the plastid genome, and a second flanking sequence.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21159

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : C12N 15/63, 5/14; C07K 14/495 US CL : 435/320.1, 69.1, 419; 530/303				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum degumentation accorded (alexalification august fallowed by electification augustals)				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/320.1, 69.1, 419; 530/303				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate,	of the relevant passages	Relevant to claim No.
х	US 5,070,075 A (ROTWEIN et al.) 03 December 1991 (03.12.1991), abstract and column 7, lines 1-11).			24
Y				1-23, 25-38
Y	DANIELL, New Tools for Chloroplast Genetic Engineering, Nature Biotechnology, 1-38			
*	September 1999, Vol. 17, pages 855-856, seen entire article.			1-30
Y	US 5,866,421 A (MCBRIDE et al.) 02 February 1999 (02.02.1999), see Fig. 1, and column 1-38			1-38
	2, line 66-column 3, line 40)			
Y	US 6,271,444 B1 (MCBRIDE et al) 07 August 2001 (07.08.01), see Fig. 2, column 1, line 1-38			1-38
	5- column 3, line 45)			
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Further documents are listed in the continuation of Box C.			See patent family annex.	
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